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## 4247-A00 IBM Serial Matrix Printer Model A00

IBM U.S. Sales Manual

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### IBM U.S. Product Life Cycle Dates

Type Model	Announced	Available	Marketing Withdrawn	Service Discontinued	Replaced By
4247-A00	1995/09/12	1995/09/29	2001/12/28	-	4247-003

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### Abstract

The IBM 4247 is a heavy-duty serial impact matrix printer capable of printing at speeds of up to 1100 characters per second (CPS) and providing multiple forms paper handling capabilities.

#### Model Abstract 4247-A00

(For IBM US, No Longer Available as of December 28, 2001)

The IBM 4247 Model A00 is a 700 CPS, Serial/Parallel (ASCII) printer. The IBM 4247 Model A00 printer will include RS-232/RS-422 serial and Centronics PC parallel attachment capability and will support the IBM Personal Printer (PPDS) and Epson FX datastreams.

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### Highlights

- Quiet operation
- Exceptional Forms Handling Flexibility
- Heavy duty performance - Up to 20 million characters per month duty cycle

#### Model Highlights 4247-A00

- Includes the following design features:
  - Exceptional forms handling flexibility
    - One continuous form tractor path and one manual cut sheet paper path standard
    - Second continuous form paper path optional
    - Paper parking to select different paths
    - Configuration option for continuous forms in pull mode
    - Four tractor (push/pull) capability for maximum feeding reliability
    - Forms tractor interchangeability between dual paths
    - Up to three bin Automatic Sheet Feeder (ASF) optional
    - Up to 8-part forms

- Document-on-demand/Zero tear off
  - Auto paper loading assist
  - Automatic Forms Thickness Adjustment
  - Straight primary tractor path
- Serial/parallel attachments
- Utilizes 18-wire print head
- Includes resident OCR fonts
- Certified Postnet bar code
- Allows operator panel menu lockout to prevent datastream override of lines per inch, characters per inch, lines per page (page length) and paper path.
- EPA Energy Star compliant
- Provides 64K byte standard input buffer
- Quiet operation
- 16 character Liquid Crystal Display (LCD) operator panel
- Implements impressive print speeds
  - 700 Characters Per Second (CPS) DP Quality Mode
  - 350 Characters Per Second (CPS) DP Text Quality Mode
  - 175 Characters Per Second (CPS) NLQ Mode
- Delivers auto attachment (port) switching between serial and parallel interfaces
- Includes Operator panel-selectable ASCII datastream emulations: Native IBM 4247, IBM Proprinter III XL, IBM Personal Printer 2381, and Epson FX

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## Description

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### Flexible Forms Handling:

The IBM 4247 Printer provides exceptional forms handling flexibility with one continuous form tractor path and manual cutsheet being standard. Another continuous forms tractor may be added to provide two continuous forms paper paths. The second path may be used by simply tearing off and parking the paper from the first path. Another forms handling option allows for up to 3 bins of cutsheet paper in an automatic sheet feed (ASF).

For customers, this remarkable forms handling flexibility can translate into a single printer performing work which formerly required two printers or more. Customers can load different forms into each tractor path and then enable the path which corresponds to the desired print job. Alternatively, the tractor paths can be parked to allow the use of the ASF or manual cut sheet functions.

### Model Description 4247-A00

The Model A00 is a 700 characters per second, heavy-duty serial matrix printer.

The IBM 4247 Model A00 Serial Matrix Printer provides a high function, heavy-duty solution to impact printer applications requiring speed and flexible forms handling features. The IBM 4247 Printer is capable of printing at 700 characters per second (CPS) in data processing (DP) print quality. The IBM 4247 offers exceptional forms handling flexibility with standard co-resident push tractor and manual

cut sheet paper paths as well as an optional second tractor path and a three-input bin Auto Sheet Feed (ASF) device. The IBM 4247-A00 Printer offers outstanding serial and parallel connectivity with automatic interface switching, native drivers, and support for popular emulations: IBM 2381, IBM 4202 Proprinter III XL, and Epson FX (FX 80 through FX 1050, DFX-5000 and DFX-8000).

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## Product Positioning

The IBM 4247-A00 Printer fulfills the requirements of a dedicated, highly reliable continuous forms impact printer in grand fashion. In fact, in multi-part form applications the 4247 handles up to 8-part forms. The ability to add and configure the optional dual tractor paths into a 4 tractor (push/pull) combination, providing a straight tractor path for stiff or heavy forms, gives customers the most reliable forms feeding. In addition, the optional Automatic Sheet Feeder (ASF) provides up to three input bins each with a capacity of 120 sheets for cut sheet. The first bin of the ASF will also handle envelopes.

With automatic attachment switching between the parallel and serial port and the ability to switch between tractor paths manually or via software commands (with dual tractor configuration), customers can load each of the tractor paths with a different form type and alternately send a job to either one. As compared to existing IBM serial matrix printers, the IBM 4247 provides advantages and additional solutions with respect to print speed, duty cycle, forms handling, and datastream support.

The new IBM 4247 is a complementary product to the existing IBM 4232-302. Choose the IBM 4232 when the primary focus is price or IBM 4224/4230 compatibility. However, if the primary focus is paper handling or performance, you should choose the IBM 4247.

Requirement -----	IBM 4232 -----	IBM 4247 -----
Print Speed		x
Price	x	
Price/Performance		x
Multiple form types		x
4224/423x ASCII Compatibility	x	
4224/423x Look and Feel	x	
4224/423x Supplies Compatibility	x	
High Monthly Print Volumes		x
Print Quality		x
Acoustics	x	

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## Model

### Model Summary Matrix

Model	Speeds	Attachments
A00	700 CPS	Serial (RS-232/RS-422) and Parallel

### Maximum

Not applicable.

### Customer Setup (CSU)

The IBM 4247 Printer is designated a customer setup (CSU) machine. All of the 4247 features are also designated customer setup (CSU).

### Devices Supported

The RS-232C serial interface will attach to:

- IBM AS/400 ASCII workstation controller
- 3174 controller via the Asynchronous Emulation Adapter
- IBM 9221 via the ASCII Subsystem Controller (feature code 6245, 6246, 6247 or 6248 on the IBM 9221)
- RS/6000
- IBM PS/2 and IBM Personal Computer COMx ports
- IBM-compatible PCs utilizing an RS-232C interface

The RS-422A serial interface will attach to:

- RS/6000
- AS/400 ASCII workstation controller

The Centronics Parallel interface will attach to:

- RS/6000 workstations (excluding POWERserver\* 930)
- IBM PS/2 and IBM Personal Computer LPTx ports and to a Token-Ring or Ethernet LAN via one of these computers
- Token Ring or Ethernet LANs via the Network Print Server features or directly to the LAN Server
- IBM-compatible PCs utilizing the Centronics Parallel interface
- AS/400 twinax terminals including IBM 348x InfoWindow II display stations, IBM 3477 InfoWindow display station, and IBM 3197 display workstation
- IBM System 36 and IBM Advanced 36 twinax terminals including IBM 348x InfoWindow II display stations, IBM 3477 InfoWindow display station, and IBM 3197 display workstation
- 3482 InfoWindow II display

## Model Conversions

None.

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## Technical Description

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↓ [Hardware Requirements](#)

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- High Speed
  - DP print speed of 700 CPS (characters per second)
  - DP Text print speed of 350 CPS (characters per second)
  - NLQ print speed of 175 CPS (characters per second)
- Heavy duty - Up to 20 million characters per month duty cycle
- Standard Serial (RS-232/RS-422) and IBM PC Parallel
- IBM 4202 Proprinter III XL, IBM Personal Printer 2381, and Epson FX (FX 80-1050 and DFX 5000/8000) emulation modes.

- Native 4247 mode drivers for AIX/6000 and OS/400 environments, shipped on diskette with the printer.
- Native 4247 mode drivers for Windows 3.1, Windows 95/98, Windows NT 3.51, and Windows NT 4.0 are available for downloading on the IBM Printing Systems Web page:  
<http://www.ibm.com/printers>
- Downloadable font support (IBM Proprinter or Epson)
- Resident bar codes - accessible via PPDS control using 4247 native mode commands).
  - Code 3-of-9
  - UPC-A and UPC-E
  - EAN-8 and EAN-13
  - UPC/EAN Supplemental encodings (2 and 5 characters)
  - Matrix 2-of-5
  - Industrial 2-of-5
  - Interleaved 2-of-5
  - MSI
  - Code 128
  - Codabar
  - Postnet (Certified)
- Maximum text print resolution of 144 X 144
- LAN Connectivity Using the Token Ring or Ethernet Network Print Servers features

### **Physical Specifications**

- Dimensions in base configuration:
  - Width: 679.5mm (26.75 inches)
  - Depth: 400.0mm (15.75 inches)
  - Height: 311.2mm (12.25 inches)
  - Weight: 22.70kg (50.0 lbs)
- Dimensions with ASF installed (fully configured):
  - Width: 679.5mm (26.75 inches)
  - Depth: 673.1mm (26.5 inches)
  - Height: 431.8mm (17.0 inches)
  - Weight: 27.81kg (61.25lbs)

### **Operating Environment**

Voltages:	100 - 127 VAC single phase grounded 50/60 Hz
	200 - 240 VAC single phase grounded 50/60 Hz
Heat Output:	20 Watts (68 BTU/hr) -- Idle
	110 Watts (376 BTU/hr) -- Normal operation
	140 Watts (478 BTU/hr) -- Maximum (200V - 240V)
	150 Watts (512 BTU/hr) -- Maximum (100V - 127V)

4247 in continuous forms and manual cutsheet applications:

Temperature:	10 to 40.6C (50 to 105F)
Relative Humidity:	8 to 80 percent
Max Wet Bulb:	26.7C (80F)

4247 in automatic sheet feed applications:

Temperature: 15.6 to 32.2C (60 to 90F)  
 Relative Humidity: 8 to 80 percent  
 Max Wet Bulb: 22.8C (73F)

Noise Emission:	Operating	Idle
	-----	-----
4247 base printer:		
Sound power level (LWAd):	7.0 bels	5.5 bels
Sound pressure level (LpAm):	55 dBA (1)	30 dBA

(1) Measured in DP Text Mode

The IBM 4247 meets the requirements to be classified as FCC Class A.

### Limitations

The 4247 has the following limitations:

- The front continuous forms paper path will handle up to 8-part forms. Forms thicker than 4-part should be tested for readability prior to use. The rear path is limited to a maximum of 4-part forms.
- When the ASF is installed, the rear tractor is limited to rear-push mode. Rear-pull mode is not available.
- The manual cut-sheet path can only be selected at the operator panel. It cannot be selected by the 4247 ASCII drivers.
- The following restrictions apply when using IBM 4247 native escape commands to print bar code:
  - Current bar code applications that use bar code escape commands must be modified to use IBM 4247 native bar code commands.
  - Bar code printing is limited to picket orientation and 3 to 1 wide to narrow ratio when printed using native 4247 escape commands.

The 4247 has the following additional limitations when emulating previous printers.

- The following commands/functions are not supported when replacing or adding to existing IBM 4224 (Model 301, 302, 3E3), 4230 (Model 4xx or 5xx) or 4232 Model 302:
  - Begin/End Overstrike
  - Begin/End Understrike
  - Select Presentation Media
  - Set Presentation Position
  - Initialize/Delete Local Font
  - Select Local Character Set
  - Set Vertical Units
  - Graphic Segment List
  - Bar Code
  - Segment
  - Overlays
  - Graphic Mapping Control
  - Read Printer Status

- The following functions are not supported when using the Epson FX 1050 driver or IBM 2381 driver in OS/2 or Windows:
  - Bar code selection or printing
  - Automatic Sheet Feed (ASF) bin selection
  - Load/Park form paths
  - Datastream emulation switching
  - Metric vertical Line spacing.

### **Hardware Requirements**

The RS-232C serial interface will attach to:

- IBM AS/400 ASCII workstation controller
- 3174 controller via the Asynchronous Emulation Adapter
- IBM 9221 via the ASCII Subsystem Controller (feature code 6245, 6246, 6247 or 6248 on the IBM 9221)
- RS/6000
- IBM PS/2 and IBM Personal Computer COMx ports
- IBM-compatible PCs utilizing an RS-232C interface

The RS-422A serial interface will attach to:

- RS/6000
- AS/400 ASCII workstation controller

The Centronics Parallel interface will attach to:

- RS/6000 workstations (excluding POWERserver(TM) 930)
- IBM PS/2 and IBM Personal Computer LPTx ports and to a Token-Ring or Ethernet LAN via one of these computers
- LAN attachment via the Network Print Server features.
- IBM-compatible PCs utilizing the Centronics Parallel interface
- AS/400 twinax terminals including IBM 348x InfoWindow II display stations, IBM 3477 InfoWindow display station, and IBM 3197 display workstation
- 3482 InfoWindow II display

The following network print servers attach to the IBM 4247 via the parallel interface:

- Ethernet 10BaseT (RJ45) Network Print Server
- Ethernet 10Base2 (BNC) Network Print Server
- Token-Ring Media Type 3 (UTP/RJ45) Network Print Server
- Token-Ring Media Type 1 (STP/DB9) Network Print Server

The Network Print Server plugs into the parallel port of the 4247-A00 to provide direct LAN capability. When attached to the 4247 printer, the Network Print Server requires an external power supply as described below. This power supply is included with the Network Print Server for the 4247 printer.

- United States style - 120 VAC (+ or - 15%), 60 Hz - (plug standard NEMA WD-1 1-15P)

The Network Print Servers have the following approvals:

- EMC: Limit A of FCC Rules and Regulations part 15 subpart B, class A (US). Limit B of EN 55022/1987, EN 50082-1/1992 (Europe).
- Safety: EN 60950, UL

**Software Requirements**

The IBM 4247 Printer can use the IBM Personal Printer Data Stream (PPDS) in IBM 4202 Proprinter III XL or IBM 2381 Personal Printer emulations by choosing the corresponding device driver for the systems listed below as supporting the PPDS datastream.

In Epson FX emulation mode the IBM 4247 Printer can print files coded for the Epson FX-1050 using the Epson ESC/P(2) printer control language.

Also, native IBM 4247 Printer support is provided for the Host Print Transform function in the IBM AS/400 and IBM RS/6000 systems. The following systems support the IBM 4247 Printer:

System	Software - Minimum Level	Emulation
-----	-----	-----
IBM PS/2 and IBM Personal Computers	OS/2 2.1 (R) OS/2 LAN Server 3.0 OS/2 Communications Manager/2 1.0 DOS 5.0 Microsoft** Windows** 3.0	PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX
IBM RISC System/6000 (1)	AIX Version 3.2.5	PPDS or Epson FX
IBM AS/400 (1) (2) (3)	OS/400(TM) V2.3 Host Print Transform OS/400 V2.3 PC Support/400 W/S Function V2.2 Client Access/400 V3.1 Personal Communication for AS/400 for Windows V4.0 Personal Communication for AS/400 for OS/2 V4.0 IBM 5250 Enhanced Emulation for Windows V1.1 IBM 5250 Enhanced Emulation for DOS V2.4	PPDS or Epson FX  PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX
IBM S/390 Mainframe Server	3174 with ASCII Emulation Adapter (AEA) Release A5.4 or later, Release B4.0 or later, or Release C2.1 or later  3482 InfoWindow II display	PPDS or Epson FX  PPDS or Epson FX
IBM 9221 Processor	ASCII Subsystem Controller (Feature code 6245, 6246, 6247 or 6248 on the IBM 9221)	PPDS or Epson FX

- (1) In addition to the emulation support defined above, files providing native IBM 4247 Printer support are shipped on diskette for the Host Print Transform function in OS/400 and for AIX/6000 to enable the enhanced function of the printer.
- (2) Host selection of the print quality is limited to two of the three qualities (DP and NLQ) featured by the printer when AS/400 attached.
- (3) Host selection of paper paths when using the ASF feature is limited to the ASF paths plus zero or one continuous form path when attached to an AS/400. The second continuous

form path may be selected from the operator panel.

### Network Operating System Support

The Network Print Server features are supported in the following environments:

Protocol	Operating System
-----	-----
IPX/SPX	Novell NetWare 3.11 and above Novell NetWare 4.01 and above using bindery emulation
TCP/IP	Novell NetWare 3.11 and above Novell NetWare 4.01 and above using bindery emulation
NETBIOS/NETBEUI	IBM LAN Server 1.3 and above
TCP/IP	IBM LAN Server 1.3 and above
NETBIOS/NETBEUI	Microsoft LAN Manager 2.0c and above
TCP/IP	Microsoft LAN Manager 2.0c and above
NETBIOS/NETBEUI	Windows NT 3.1 and above
TCP/IP	Windows NT 3.1 and above
TCP/IP	AIX 3.2.5, 4.1

Supported TCP/IP print methods are LPD, FTP and Reverse Telnet.

### ASCII Code Pages Supported

The IBM 4247 Printer will provide non-English characters in the same quality level, pitches, and fonts as English characters.

Code		Code	
Page	Description	Page	Description
----	-----	----	-----
437	Personal Computer	876	OCR-A
737	MS DOS Greek	877	OCR-B
813	Greek/Latin (ISO 8859-7)	912	Latin 2 (ISO 8859-2)
819	Latin 1 (ISO 8859-1)	913	Latin 3 (ISO 8859-3)
850	PC Multilingual	914	Latin 4 (ISO 8859-4)
851	Greek Old	915	Cyrillic (ISO 8859-5)
852	Latin 2/ROECE	916	Latin 8 (ISO 8859-8)
853	Turkish	920	Latin 5 (ISO 8859-9)
855	Cyrillic	921	Baltic Multilingual
857	Turkish	922	Estonian
858	PC Multilingual with euro	923	Latin 9 (ISO 8859-15)
860	Portuguese	1006	Urdu
861	Icelandic	1046	Arabic
862	Hebrew	1089	Latin 6 (ISO 8859-6)
863	Canadian French	1098	Farsi
864	Arabic	1116	Estonia PC
865	Danish/Norwegian	1117	Latvia PC
866	Cyrillic	1118	Lithuania PC
869	Greek New	1251	Cyrillic Windows

874 Thai

### Character Sets Supported in Epson Emulation Mode

Character Set	Description
0	Epson USA
1	Epson France
2	Epson Germany
3	Epson U.K.
4	Epson Denmark I
5	Epson Sweden
6	Epson Italy
7	Epson Spain I
8	Epson Japan
9	Epson Norway
10	Epson Denmark II
11	Epson Spain II
12	Epson Latin America I
13	Epson French Canadian
14	Epson Latin America II

### Font Support

The IBM 4247 Printer will provide print quality levels, character spacings, and character configurations (resident fonts) as follows:

- DP mode Gothic and DP mode Italic: 10, 12, 15, 17.1 and 20 CPI
- DP Text mode and DP Text mode Italic Courier: 10, 12, 15, 17.1 and 20 CPI
- NLQ mode and NLQ mode Italic Courier or Gothic: 10, 12, 15, 17.1 and 20 CPI
- DP mode and DP mode Italic Essay: Proportional Spacing
- DP Text mode and DP Text mode Italic Essay: Proportional Spacing
- NLQ mode and NLQ mode Italic Essay: Proportional Spacing

**Note:** The above fonts and print quality levels will include all characters defined by the Resident Code Pages described in "Character Sets" above unless otherwise noted. Any quality level can be printed at either 6 or 8 lines per inch (LPI).

### Paper Handling

- Continuous Forms

The 4247 will handle up to 8-part continuous forms in the front tractor path and 4-part in the rear tractor path. The forms must meet the following specifications:

- Form weight can range from 56 grams per square meter (gsm) (15 lbs) to 150 gsm (40 lbs). Paper weights outside this range must be tested by the customer for proper operation.
- Form thickness for all parts may range from 0.08 mm (0.003 in.) to 0.64 mm (0.025 in.).
- Form width ranges from 76.2 mm (3 in.) to 431.8 mm (17 in.)
- Form length ranges from 76.2 mm (3 in.) to 609.6 mm (24 in.)

Forms less than 152.4 mm (6 in.) in length or width should be tested for satisfactory stacking and may require operator assistance.

- Manual feed

The following sizes of cutsheet paper maybe used in the manual feed: A5, A4, A3, A2, Letter, Legal and Executive.

Single or multi-part forms may be fed into the manual cut sheet path. Multi-part forms should be tested by the customer to ensure satisfactory feeding, registration and print quality. Forms for the manual feed must meet the following specifications:

- Form weight can range from 50 gsm (13.3 lbs) to 120 gsm (32 lbs). However, weights less than 75 gsm may be subject to registration problems when print in NLQ mode or graphics. Paper weights outside this range must be tested by the customer for proper operation.
- Form thickness for all parts may range from 0.08 mm (0.003 in.) to 0.64 mm (0.025 in.).
- Form width ranges from 114.3 mm (4.5 in.) to 444.5 mm (17.5 in.)
- Form length ranges from 101.6 mm (4 in.) to 609.6 mm (24 in.)

- Automatic Sheet Feed

The IBM 4247 Automatic Sheet Feeder provides an operator changeable mechanism for automatic feeding of cut sheets. It includes a stacker and one input bin. The stacker also serves as the output bin for the manual cut sheet input path. Two additional bins may be added for a total of 3 input bins. Each automatic bin holds up to 120 sheets of variable width 80 gsm (20 lb) single-part paper. Multi-part forms (up to 3-part) can also be used. The output stacker holds up to 150 sheets of 80 gsm (20 lb) single-part paper, collated sequence. Bin selection can be controlled by the host system or from the 4247 operator panel. All operator control is from the 4247 operator panel.

Paper meeting the following specifications is acceptable for use in the ASF. All other paper must be tested by the customer for suitable performance.

- Paper sizes (single or multi-part):

ASF Bin	Paper Length	Paper Width
-----	-----	-----
Bin 1 (auto)	127-356mm (5-14 in.)	153-305mm (6-12 in.)
Bin 2 (auto)	228.6-356mm (9-14 in.)	153-305mm (6-12 in.)
Bin 3 (auto)	279.4-356mm (11-14 in.)	153-305mm (6-12 in.)

Up to 30 USA #6 (220mm - 110mm (8.66 in. x 4.33 in.))  
or #10 (241.3mm x 104.8mm (9.5 in. x 4.12 in.)) envelopes with a  
maximum thickness of 0.52mm (0.021 in.) and a maximum thickness  
variation of .3mm (.012 in.) may be fed in ASF Bin 1.

- Form weight should be 60 to 100 gsm (16 to 27 lb)
- Form thickness of a single sheet should be a minimum of 0.086mm (0.0034 in.) and a maximum of 0.117-mm (0.0046 in.). (Also see multi- part forms specifications).
- For optimum performance, use 75 to 90 gsm (20 to 24 lb) cotton content (25% or 50%) plain bond paper.
- Multi-part forms can be used in all ASF bins. Tolerances and environmental conditions are more critical for multi-part forms than for single sheets. All multi-part forms must be tested by the customer for suitable performance with the ASF.
- Multi-part forms used on the ASF are restricted to snap-out or top- glued forms only.

- Multi-part snap-out forms must meet the following specifications:

Pressure sensitive paper (3 sheets maximum)

First sheet 70 - 80g/m2 (19 - 21 lb)

2nd sheet 40 - 60g/m2 (11 - 16 lb)

Last sheet 70 - 80g/m2 (19 - 21 lb)

Carbon sets (3 sheets maximum)

First sheet 70 - 80g/m2 (19 - 21 lb)

2nd sheet 35 - 40g/m2 (9 - 11 lb)

Last sheet 70 - 80g/m2 (19 - 21 lb)

Carbon paper 25g/m2 (6.6 lb) approximate

(Carbon non-coated surface must be rough.)

Snap-out perforation

First sheet 3 : 0.8-mm

2nd sheet 7 : 0.8-mm

Last sheet 7 : 0.8-mm

(Micro-perforations allowed for first and last sheets, 72 perfs per inch recommended.)

- Multi-part top-glued forms must have a top edge that is flat, smooth, and free from any traces of glue. Form sets cut against the grain are more acceptable than sets cut with the grain.
- Automatic Sheet Feed Paper Recommendations
  - Unsatisfactory paper and forms (the following are some of the papers and forms that do not perform reliably or may cause damage to the sheet feed mechanism):
    - Coated paper
    - Vellums
    - Highly sized erasable bond
    - Synthetic paper
    - Transluents
    - Some paper with a cockle finish
    - Some multi-part forms not meeting specifications
    - Some pressure sensitive adhesive labels
    - Some chemically treated paper (ink-impregnated paper)
    - Some preprinted forms requiring high registration accuracy for character location
    - Card stock
    - Some preprinted paper containing chemicals that contaminate the sheet feed mechanism or change the frictional characteristics of the paper
    - Stapled or clipped forms
    - Paper with gum surfaces, holes, perforations, cutouts or windows
    - Paper with embossment height exceeding 0.5-mm (0.020 in.). (Embossments must not be located within 15-mm (0.59 in.) of any edge of a sheet)
    - Folded documents
    - Paper with curl or waviness exceeding 3-mm (0.118 in.)
    - Reams with edges or corners folded or bonded together
    - Paper with poorly cut or rough edges
  - Paper used in the ASF should be new, unused, and without packaging damage.
  - Paper of different types (letterhead, plain, etc.), sizes, or composition should not be mixed or interleaved in the same ASF bin.
  - Paper should not be exposed to adverse temperature and humidity conditions. (Consult

the manufacturer for recommended storage environment).

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## Publications

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The publications listed below are shipped with the product. Additional copies (English only) are available immediately.

- User's Guide (SA24-4404)
- Quick Reference Guide (SA24-4405)
- Ethernet Network Print Server Administrators Guide (S246-0111) (1)
- Token-Ring Network Print Server Administrators Guide (S246-0112) (2)
- Automatic Sheet Feeder Manual (SA24-4407) (3)

The Maintenance Manual (SA24-4400) may be ordered through the "Puborder" or MES process for a charge. It is not shipped with the printer.

**Note:** (1) This manual will be shipped with the Ethernet Network Print Server, feature 4164 or 4165. The Network Print Server Technical Reference manual will be shipped on diskette in Adobe Acrobat PDF file format as a part of the installation kit for the NPS features.

**Note:** (2) This manual will be shipped with the Token Ring Network Print Server, feature 4121 or 4124. The Network Print Server Technical Reference manual will be shipped on diskette in Adobe Acrobat PDF file format as a part of the installation kit for the NPS features.

**Note:** (3) The Automatic Sheet Feeder manual will be shipped with the Automatic Sheet Feeder feature 4015.

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## Features -- Specify/Special/Exchange

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[↓ No Charge Specify Codes](#)

[↓ Special Feature Codes -- Chargeable](#)

[↓ Feature Exchanges](#)

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### No Charge Specify Codes

- #9200 for Low Voltage - 100V to 127V, 50/60Hz (default)
- #9201 for High Voltage - 200V to 240V, 50/60Hz

Two lengths of low voltage power cords are available. Specify feature code 9250 for 6.0ft (1.8m) Chicago power cord with non-locking plug or feature code 9251 for 2.8m (9 ft) power cord with non-locking plug. The 9 ft. power cord with non-locking plug is the default.

### Special Feature Codes -- Chargeable

#### **(#4002) Additional Tractor Assembly**

Provides dual tractor path capability with which either front push- pull mode or dual push mode configurations may be utilized. Up to 8-part forms (4-part in rear-push mode) may be used. This tractor feature can be installed in the 4247 simultaneously with the primary tractor assembly, the manual cut sheet, and the ASF. Maximum: One. Field Installation: Yes. Customer Setup: Yes.

#### **(#4015) Automatic Sheet Feeder (ASF)**

The IBM 4247 Automatic Sheet Feeder provides an operator changeable mechanism for automatic feeding of cut sheets. Complements NLQ printing for business correspondence applications. Includes one automatic input bin and an output stacker which can also function as the output bin for the manual cut sheet input path. Maximum: One. Field Installation: Yes. Customer Setup: Yes.

The Automatic Sheet Feed feature includes the ASF hardware and an English ASF manual.

#### **(#4016) Additional ASF Input Bin**

Provides an additional input bin for the base ASF feature (FC# 4015). In combination with the base ASF feature, this feature may be used to achieve a second and third input bin(order two) configuration of the 4247 Maximum: Two. Field installation: Yes. Customer Setup: Yes

**(#4460) Printer Stand**

Provides a sturdy printer stand designed for the 4247 printer. Maximum: One. Field installation: Yes. Customer Setup: Yes, requires assembly.

**(#4959) Field Conversion to EuroReady Serial/Parallel ASCII**

Provides capability to add the euro common currency symbol support and support of code page 858 to printers with serial numbers lower than 23559. Printers with higher serial numbers come with this level of euro support standard. Maximum: One. Field installation: Yes. Customer Setup: No.

**(#4164) Ethernet 10BaseT**

Network Print Server provides attachment to Ethernet 10BaseT networks via the parallel port. Field installation: Yes. Customer Setup: Yes.

**(#4165) Ethernet 10Base2**

Network Print Server provides attachment to Ethernet 10Base2 networks via the parallel port. Field installation: Yes. Customer Setup: Yes.

**(#4124) Token-Ring Media Type 3**

Network Print Server provides attachment to Token-Ring Media Type 3 networks via the parallel port. Field installation: Yes. Customer Setup: Yes.

**(#4121) Token-Ring Media Type 1**

Network Print Server provides attachment to Token-Ring Media Type 1 networks via the parallel port. Field installation: Yes. Customer Setup: Yes.

These features can be ordered as features on the IBM 4247 Model A00 Serial Matrix Printer.

**(#3741) RS/6000 RS-232 Serial Cable Kit**

Provides RS-232 cable connections to the RISC/System 6000. Maximum: One. Field installation: Yes. Customer Setup: Yes.

**(#4342) AS/400 Workstation Controller RS-232 Serial Cable**

Provides a 12.2m (40 ft) RS-232 cable for connecting to the serial port of the workstation controller. Maximum: One. Field installation: Yes. Customer Setup: Yes.

**(#4346) AS/400 Workstation Controller RS-422 Serial Cable**

Provides a 30m (100 ft) RS-422 cable for connecting to the serial port of the AS/400 workstation controller. Maximum: One. Field installation: Yes. Customer Setup: Yes.

**(#5612) PC Attach Parallel Cable**

Provides a cable for attaching to the parallel port of PCs and compatibles. Maximum: One. Field installation: Yes. Customer Setup: Yes.

**(#8652) PC Attach RS-422 Cable**

Provides a 15.2m (50 ft) RS-422 cable for connecting to the serial port of PCs and compatibles. Maximum: One. Field installation: Yes. Customer Setup: Yes.

**(#9386) PC Attach RS-232 Cable**

Provides a 6.1m (20 ft) RS-232 cable for connecting to the serial port of PCs and compatibles. Maximum: One. Field installation: Yes. Customer Setup: Yes.

**9-Volt AC Power Supply**

When the Network Printer Server - Ethernet 10BaseT (feature code #4164) is installed, a no charge 9-Volt AC Power adapter is required. The 9-Volt AC Power adapter can be ordered either as an initial order or MES with one of the following specify codes.

- US Plug Type (#7801)

- UK Plug Type (#7802)
- European Plug Type (#7803)
- Japanese Plug Type (#7804)
- Australian Plug Type (#7805)

### 12-Volt AC Power Adapter

When any feature in the following list is installed, a 12-volt AC power supply is required.

- The Network Print Server Ethernet 10Base2 (feature code #4165), or
- The Network Print Server Token Ring Media Type 1 (feature code #4121), or
- The Network Print Server Token Ring Media Type 3 (feature code #4124)

The no charge 12-volt AC power supply adapter can be ordered, either as an initial order or as an MES, with one of the following specify feature codes:

- US Plug Type (#7701)
- UK Plug Type (#7702)
- European Plug Type (#7703)
- Japanese Plug Type (#7704)
- Australian Plug Type (#7705)

### Feature Exchanges

Not available.

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### Accessories

A line cord is provided with the printer.

Attachment cables may be ordered at initial order time or at a later date by feature code. The IBM 4247 is attachable to the same serial or parallel cabling as other IBM printers including the IBM Proprinter III XL, the IBM 2381, the IBM 4224, and the IBM 4226. The IBM 4247 is attachable to the industry standard IBM PC Parallel cabling. For best results, purchase the proper cable from IBM for best results (reference the feature code section).

### Customer Replacement Parts

None.

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### Machine Elements

None.

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### Supplies

None required with the machine order.

IBM supplies are distributed via Lexmark International. Supplies can be purchased from Lexmark Authorized Supplies Dealers or directly from Lexmark.

Call 800-438-2468. Fax orders may be sent to 800-522-3422.

Mail orders may be sent to:

Lexmark International, Inc.  
1221 Alverser Drive  
Midlothian, VA 23113

### IBM 4247 Printer Ribbon:

This customer replaceable cartridge ribbon supports general purpose printing as well as automatic identification printing for visible light scanning.

- Expected life: 15 million DP characters
- Estimated annual usage: 8 to 12 ribbons
- Standard packaging: 1 per carton; 6 per box
- Part number: 1053685

**Diskettes**

None.

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